



Approval # 20020022

Environmental & Regulatory Services Division  
Bureau of Petroleum Products and Tanks  
201 West Washington Avenue  
P.O. Box 7837  
Madison, WI 53707-7837

## **Wisconsin COMM 10 Material Approval**

Equipment: Secondary Containment Dike with Integral  
Collision Protection

Manufacturer: Custom Welding and Fabrication  
N6431 Cty Road H  
Luxemburg, WI 54217

Expiration of Approval: December 31, 2008

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### **SCOPE OF EVALUATION**

The secondary containment dike with integral collision protection manufactured by Custom Welding and Fabrication of Luxemburg Wisconsin, were evaluated against the diking requirements of **s. Comm 10.345** and the secondary containment and vehicle collision protection requirements of **ss. Comm 10.347** and **Comm 10.415 (7) to (8)** of the Wisconsin Flammable and Combustible Liquids Code.

### **DESCRIPTION AND USE**

The Custom Welding and Fabrication secondary containment dikes are made of steel, with additional steel reinforcing on the upper part of the sides to absorb vehicular impacts. Anchor braces are attached to the outside of the dike for the purpose of bolting the containment in place to prevent displacement if impacted. There are two different styles of containment dikes; one style has a separate containment compartment for the mounting of a dispenser, the other

style has containment for the tank only. Standard models are for a 1,000-gallon tank and for a 550-gallon tank.

Removal of rainwater is accomplished with a self-closing valve.

Anchor cables are attached to the dike sidewalls and wrap over the top of the tank in order to prevent tank flotation or displacement.

## **TESTS AND RESULTS**

Dimensioned drawings are on file with the department showing configurations and capacities. Testing was successfully conducted on tank support system and dike containment per the UL standards. Calculations and testing data were submitted showing adequate containment capacity per **s. Comm 10.345** and collision impact resistance to meet **s. Comm 10.415 (8)(a)**.

## **LIMITATIONS / CONDITIONS OF APPROVAL**

- In accordance with **s. Comm 10.345 (1)(a)**, the secondary containment vessel shall have a capacity 25 percent larger than the tank it contains. A means to remove accumulated water shall be provided.
- The tank shall be elevated no more than 12 inches above the floor of the secondary containment vessel and have at least 6 inches of clearance on all sides to allow for visual inspection.
- For the containment dike with the separate integral dispenser sump, the sump containment area must be kept separate from the tank containment sump.
- For snowmobile or all-terrain vehicle (ATV) fueling only, a reduced dispenser to tank setback is allowed.
- The containment dike must be secured in place in order to prevent displacement if impacted.
- An aboveground storage tank installer certified by the department in accordance with **Comm 5.84** shall supervise the installation.
- Additional vehicle collision protection, such as posts or rails in accordance with **s. Comm 10.415 (8)** are not required provided the tank is fastened with anchor bolts or cables; and shear valves, flexible connectors, or other protective devices are installed on product and/or electrical lines to assure adequate system flexibility should the system be displaced by collision.

**Unusual or heavy traffic patterns may require additional visual warning or collision protection.**

This approval will be valid through December 31, 2008, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

**DISCLAIMER**

The Department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement unless specified in this document.

Reviewed by: \_\_\_\_\_

Greg Bareta, P. E.  
Engineering Consultant  
Bureau of Petroleum Products and Tanks

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_